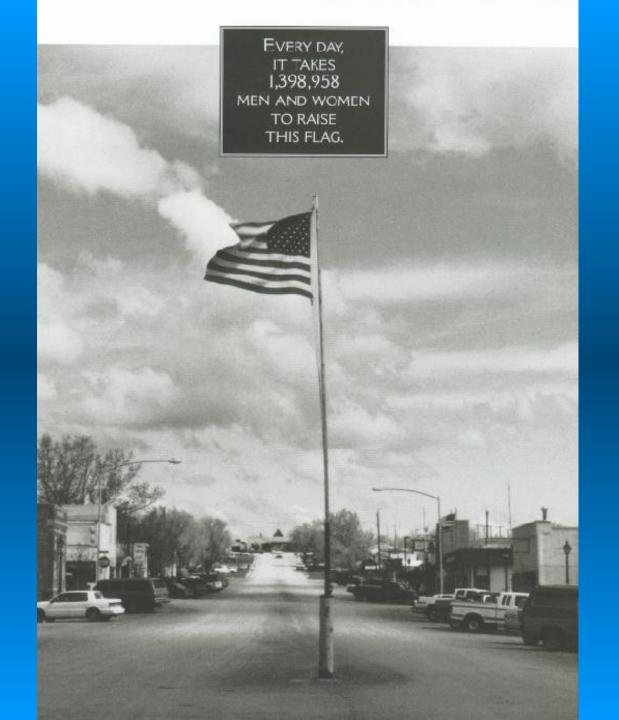


# Biomedical Equipment Repair Technician 8479 Basic 8478 Advanced



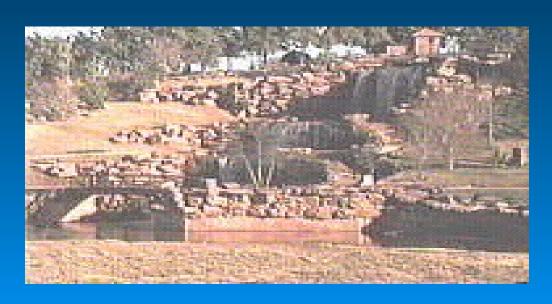
# FACILITY



- INAUGURATION IN FEB 1998
  - \$22M FACILITY
  - 96,000K+ sq. ft / 2 Bldgs
- "STATE OF THE ART" EQUIPMENT
- CONDUCTED IN WICHITA FALLS, TEXAS AT SHEPPARD AIR FORCE BASE

### SHEPPARD AFB

LOCATED: WICHITA FALL, TEXAS
2 HRS NORTH OF DALLAS & 2 HRS SOUTH OF
OKLAHOMA CITY
JUST 15 MIN FROM OKLAHOMA/TEXAS STATE LINE
IN "TORNADO ALLEY"



### **MISSION**

TO CONDUCT TRI-SERVICE EDUCATION AND TRAINING FOR NAVY BIOMEDICAL EQUIPMENT TECHNICIANS IN ORDER TO ENHANCE OPERATIONAL READINESS OF THE ARMED FORCES OF THE UNITED STATES

# **NEC-8479** (Basic)

Hospital Corpsmen in pay-grades E-3 through E-5 Curriculum requires the student to perform mathematical calculations. High school or college algebra with a grade of "C" or better and/or completion of NAVEDTRA 10069-D series (Mathematics, volume 1) is required. Must complete the following NEETS modules with a grade of 3.0 or better:

- Intro to Matter Energy and Direct Current (Module 1)
- Intro to Alternating Current and Transformers (Module 2)

Must have normal color vision.

# BIO MEDICAL EQUIPMENT TECHNICIAN

#### BASIC COURSE

- CURRICULUM
  - 41 WEEKS 12 blocks of instruction
  - MAXIMUM CLASS SIZE: 20
  - CLASS LOAD EVERY 10 DAYS
  - 22 classes p/yr

## NEC 8479 - Applications

In this school we train and qualify personnel to inspect, install, calibrate, repair, and maintain electrical and non-electrical, deployable medical units, medical electronic systems and x-ray equipment, emphasizing circuit board level repair, to meet the needs of the operational forces. Additionally we provide instruction on installation, calibration, repair, and maintenance of medical and dental equipment with an emphasis on field equipment; proper diagnosis and repair of malfunctioning general medical and dental equipment items, training on basic medical and dental x-ray and laboratory equipment.

## BMET BASIC (8479) SCHOOL SPECIFICATIONS

- **Block 1** Basic Skills
- **Block 2** Basic Electronic Theory
- Block 3 Basic Digital Theory
- Block 4 Dental and Sterilizer Systems
- **Block 5** General Medical Equipment
- **Block 6** Respiratory Equipment

## BMET BASIC SCHOOL SPECIFICATIONS

**Block 7** – Cartographic Diagnostic Equipment

**Block 8** - Clinical Laboratory Systems

**Block 9** - Diagnostic Imaging I

**Block 10** – Diagnostic Imaging II

**Block 11** – Advanced Electronic Theory & Field

**Support Training** 

**Block 12** – Service Specific

## NEC-8478 (Advanced)

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Hospital Corpsmen in pay-grades E5 and E6 with a
prerequisite minimum of two years experience in
NEC HM-8479. Must complete the following
NEETS modules with a grade of 3.0 or better:
     Intro to Generators and Motors (Module 5)
     Intro to Solid-State Devices and Power Supplies
                Intro to Amplifiers (Module 8)
(Module 7)
     Intro to Number System and Logic Circuits
(Module 13)
     Intro to Digital Computers (Module 22)
     Magnetic Recording (Module 23)
     Intro to Fiber Optics (Module 24)
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# BIO MEDICAL EQUIPMENT TECHNICIAN

#### ADVANCED COURSE

- CURRICULUM: 27 WEEKS 7 blocks of instruction
- MAXIMUM CLASS SIZE: 16

# NEC 8478 (Advanced)-Applications

This school provides personnel with the knowledge and skills required for the installation, inspection, maintenance, trouble shooting, repair, calibration and adjustment of complex biomedical electronic systems, x-ray equipment, and the management skills essential for maintenance activity supervision. The course includes advanced electronics theory, maintenance management, preventive maintenance, troubleshooting, testing, and calibration of complex medical equipment such as x-ray apparatuses, diagnostic lab instruments, and patient monitoring systems. College credits are awarded through affiliation with registered college.

## BMET ADVANCED SCHOOL SPECIFICATIONS

- **Block 1** Advanced Computer Based Systems
- Block 2 Advanced Laboratory Equipment
- Block 3 Advanced Lasers and Ultrasound
- Block 4 Advanced Medical Imaging
- **Block 5** Pre-procurement and Acceptance
- Block 6 Networking and Telemedicine
- **Block 7** JACHO / AAMI Standards and Shop Management.

## Duty Stations in CONUS

- NACC PTSMTH NH
- NMC ANNAPOLIS MD
- NXDIVU PANCTY F
- NNMC BETHESDA
- NMEDCEN PTSMOUTH
- NH PENSACOLA FL
- NHOSP GLAKES
- NAVHOSP JAX FL
- NH CORPUS CHRIST
- BRMCL WPNS CONC
- BMEDCL NAEC LKHU
- BRMCL Key West FL
- BRMEDCL ALBANY G
- NHOSP 29 PALMS
- BLOUNT ISL COMD
- NMCL KINGS BAY G
- NH BEAUFORT
- NENVIRHLTC NORVA

- S NSHS BETH DET
- NH CHERRY POINT
- NH LEMOORE
- NH OAK HARBOR
   WA
- NH PATUXENT RIV
- NMC PT HUENEME
- NH GROTON CT
- S EEAP MT S JAC
- NAVMEDLOGCOM MD
- SUPSHP PASGLA
   M
- MRESCHINST BETHA

# Duty Stations Overseas & Sea Duty

- NH SIGONELLA, ITALY
- NH ROOS RD PR
- NH NAPLES ITALY
- NH ROTA SPAIN
- NH KEFLAVIK ICELAND
- NH GUANTANAMO CUBA
- NH GUAM MI
- NH YOKOSUKA JAPAN
- NH OKINAWA
- NMC HAWAII

- NSP MTEC SHORE
- FLT HOSP OTC PEN
- NMC LONDON PIRMAS
- NMRSCHU 3 CAIRO
- NMRSCHU 2 JAK IN
- C/B RSP FORCE
- NSUPFAC D GARCI
- 1ST FSSG FMFPAC
- 2D FSSG FMF LANT
- 3D FSSG FMFPAC
- 4TH FSSGMLC4SBN

## Duty Stations at Sea

- T-AH 19 MERCY
- T-AH 20 COMFORT
- LCC 19 B RIDGE
- LHA 1 TARAWA
- LHA 2 SAIPAN
- LHA 3 BELL WDS
- LHA 4 NASSAU
- LHA 5 PELELIU
- LHD 1 WASP
- LHD 2 ESSEX
- LHD 3 KEARSARGE
- LHD 4 BOXER
- LHD 5 BATAAN
- LHD 6 B RICHARD
- LPH 9 GUAM

- CV 63 KITTY HAWK
- CV 64 CONSTELLATION
- CV 67 JF KENNEDY
- CVN 65 ENTERPRISE
- CVN 68 NIMITZ
- CVN 69 EISENHOWER
- CVN 70 C VINSON
- CVN 71 T ROOSEVELT
- CVN 72 A LINCOLN
- CVN 73 GEO WASHINGTON
- CVN 74 JC STENNIS
- CVN 75 HS TRUMAN
- CVN 76 R REAGAN

# **Availability**

- Submit packages through your Career Counselor.
- 22 class starts per year for Basic
- 4 class starts per year for Advanced
- SRB Eligible

# WHY BECOME AN 8479 / 8478?

- The chance to make a difference.
- Challenging Sea Duty as a BMET, usually working independently.
- There is a great responsibility, but with it comes the chance to prove yourself and standout among your peers!



STERILIZER REPAIR

# TELEMEDICINE / PACS



# X-ray Repair



Portable X-ray Repair



# **Dental Chair Installation**



For more information, see your Local Biomedical Equipment repair staff or contact the BMET Enlisted Technical Leader at DSN: 494-5269 E-mail: Collinsgb@pnw.med.navy.mil